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		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.		<u> </u>	Valerie Vreeland	2307O087120	5972
	09/840,762	04/23/2001 0590 12/13/2002 0 AND TOWNSEND AN 15CADERO CENTER OR 15CO, CA 94111-3834			
	20350		ID CREW, LLP	EXAMINER PATTERSON, CHARLES L JR	
	TWO EMBAI				
	EIGHTH FLOO SAN FRANCIS		Y	ART UNIT	PAPER NUMBER
				1652	
			•	DATE MAILED: 12/13/200	² J

Please find below and/or attached an Office communication concerning this application or proceeding.

٠- ا	Application No.	Applicant(s)				
	09/840,762	VREELAND ET ÅL.				
Office Action Summary	Examin r	Art Unit				
	Charles L. Patterson, Jr.	1652				
The MAILING DATE of this communication app Period for Reply	ars on the cov r sh t with th	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. If the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 30 S	eptember 2002					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under EDisposition of Claims						
4) Claim(s) 16, 17 and 20-30 is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>16,17 and 20-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in rep	ly to this Office action.					
12)☐ The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicat	ion No				
3. Copies of the certified copies of the prior application from the International Bur* See the attached detailed Office action for a list of the company of the certified copies of the prior application of the certified copies of the prior application of the certified copies of the prior application from the certified copies of the prior application from the little certified copies of the prior application from the little certified copies of the prior application from the little certified copies of the prior application from the little certified cert	eau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application).				
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti		-				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	· _	y (PTO-413) Paper No(s) Patent Application (PTO-152)				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16, 17 and 20-30 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over either of Soedjak, et al. (C10) or Vreeland, et al. (C12). This rejection is repeated for the reasons given in the last action. Applicants arguments have been carefully considered but do not overcome the instant rejection.

Applicants argue that the two references teach the "full length, naturally-occurring vanadium bromoperoxidase found in *Fucus*, but do not disclose its amino acid sequence". The further argue that the full length protein has 676 amino acids, that the instant specification teaches that the region 441-676 is sufficient for enzymatic activity and that the full length enzyme is not within the scope of the claims as amended. The examiner does not agree. There is nothing found in the two references that teaches that the full length enzyme is what is taught and furthermore there are no claims limited to residues 441-676 having enzymatic activity. Claim 16 is now limited to a polypeptide that "has no more than about 600 amino acids". "About 600" could be 676 and also using the average molecular weight of an amino

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acid, 600 amino acids is about the molecular weights given in the two references.

Sequencing of a protein does not lend any patentability to the protein per se if it is disclosed in the prior art. MPEP 2112.01 states that "[w]here the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established" (emphasis added). In re Best, Bolton and Shaw, 195 USPQ 430 (CCPA, 1977), is cited for this statement. It is further stated that "[w]hen the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not". In re Brown and Sagger, 173 USPQ 685 (CCPA, 1972) also appears to bear on this.

It is maintained that the instant claims are either inherently disclosed by the instant references or would have been obvious to one of ordinary skill in the art.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Patterson, Jr., PhD, whose telephone number is 703-308-1834. The examiner can normally be reached on Monday - Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy can be reached on 703-308-3804. The fax phone number is 703-308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Charles L. Patterson, Jr. Primary Examiner
Art Unit 1652

Patterson December 12, 2002